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differentia, aut ad calculos rationesque revocanda, aut experimentis (ubi fieri iteratis tentaminibus possit) perquirenda? Si id per se satis dilucide atque manifeste jam apparet. Quod si in subtili cogitatione hac aliquid humani mihi contigerit, veritatem lubens agnoscam. Gaudeboque vehementer, si cuipiam occasionem dederò præstandi utilia, ut veritas, quæ in occulto latere amat, perspicue detegatur.

II. *Observationes Astronomicæ habitæ in Collegio Pekinensi a Patribus Societatis JESU, a Mense Novembri 1740. a D<sup>o</sup>. Jacobo Hodgson, R. S. S. cum REGIA SOCIETATE communicatæ.*

*Presented Jan.*  
20. 1742-3.

1740.	h	'	''	
Nov. die 4.	5	55	15	a. m. plena immersio Satellitis primi in umbra $\Psi$ , visa <i>telescop.</i> 13. <i>ped.</i>
	8.	12	16	5 p. m. plena immer. 2 <sup>di</sup> Satellitis $\Psi$ , visa <i>eodem.</i>
		18	34	p. m. ♀ præcedens Stellam $\eta$ in $\pi$ occidentalior erat in asc. rect. 2' 54'' temporis, & borealior in declinatione 6' 30''.
	9.	11	2	15 p. m. ♂ emerfit e Luna in recta per Menelaum & Keplerum: immersio videri non potuit ob nubes in horizonte ortivo.

Nov.

1740. h. ' ''  
Nov. die 9. 18 34

♀ Sequens hesternam  
stellam, orientalis erat  
in ascensione recta 1'.  
temporis, & australior in  
decl. 15' 40''. distans  
21' 53''.

12. 14 16 52 *p.m.* plena immersio Satel-  
litis 1<sup>mi</sup>. *Telef.* 13 *ped.*

15. 14 49 24 *p.m.* plena immersio 2<sup>di</sup> Sa-  
tellitis. *Eodem Telef.*

16. 9 55 *p.m.* Satelles 3<sup>tius</sup> immerfurus  
in umbram disparuit in  
nebula, ob quam nec  
hujus emersio, nec 4<sup>ti</sup> im-  
mersio spectari potuit.

19. 16 9 10 *p.m.* plena immersio  
Satell. 1<sup>mi</sup>.

21. 10 37 33 *p.m.* plena immersio *Telef.*  
Ejusdem. 13 *ped.*

22. 17 21 48 *p.m.* plena immersio  
2<sup>di</sup> Satellitis.

18 43 ♀ Stellam ♀ in ♀ Se-  
quebatur in asc. rect. 4'  
27'' temp. & erat au-  
stralior in declin. 13'  
20''.

26. 7 45 *vesp.* Stella τ in ♀ stabat in  
Linea Dichotomiæ ε,  
a cuspide australi in de-  
clinatione australior  
13' 0''.

1740.

	h	'	"	
Nov. die 26.	18	1	25	p.m. plena immersio
				1 <sup>mi</sup> Satellitis.
30.	17	47	40	p.m. plena immersio
				Satellitis 3 <sup>tii</sup> .

Tel. 13

ped.

Dec. die 2. 17 20 p.m. Stella  $\epsilon$  in  $\gamma$  supra erat  $\alpha$   
in eadem asc. rect. cum  
centro Platonis, borea-  
lior in declin. 12' 20".  
Plato distabat a limbo  
bor.  $\alpha$  4' 0".

3. 9 10 57 p.m. plena immersio Satell.  
2<sup>di</sup>. *Tubo 13 pedum.*

4. 12 26 p.m.  $\alpha$  obtexit Stellam  $\eta$  in  
 $\Pi$ , quæ immerfit contra  
Byrgium; emersio ob  
nebulam non fuit ob-  
servata.

10. 11 42 32 p.m. plena immersio  
2<sup>di</sup> Satellitis.

14. 10 38 20 p.m. plena immersio  
1<sup>mi</sup> Satellitis.

17. 14 15 20 p.m. plena immersio  
2<sup>di</sup> Satellitis.

19. 18 3 p.m. immersio Satel-  
litis 1<sup>mi</sup>.

Tel. 10

ped.

1741.

Jan. die 1. 7 mane

$\gamma$  distans a Stella  $\nu$  in  
 $m$   $\pm$  34'. Sequebatuream  
in asc. rect. 1' 50"  
temp. borealior in de-  
clin. 19' 0"

Jan.

1741.					
Jan. die	1.	h	'	''	
		5	30	6	p. m. Emerſio Satellitis 1 mi.
					Teſcop. 10 pedum.
		5	59	30	— Limbus occiduus & ad
					filum horarium in te-
					leſcopio.
		6	0	24	— & ad diem filum, diſtans
					a limbo bor. & 13' 0''.
		1	15		— Limbus orientalis & ad
					idem filum.
		6	5	36	— Limbus occiduus & rur-
					sus ad idem filum ho-
					rarium.
		6	18		— & ad idem filum, diſtans
					a limbo boreo, 12' 30''.
		7	55		— Limbus orient. & ad
					idem filum.
		11	34		— & culminavit altus 73°
					26'.
		43			— & culminavit alt. centr.
					73° 15'.

*Die 2. horis matutinis partialis & Eclipsis,*

		h	'	''	
		6	4	18	mane umbram iam tenuiter
					ſtrinxiffe & marginem,
					tubo 3 $\frac{1}{2}$ ped. notatum
					eſt.
		6	5	40	Initium certum inter Vie-
					tam & Schikardum
					tubo 6 ped. ſignatum
					fuit.
		10	0		Umbra ad Schikardum.
		14	0		ad mare humorum
		R	r	2	Jan

1741.

Jan. die 2.

h	'	"	
6	16	0	Umbra ad Grimaldum.
	16	10	ad Capuanum.
	17	20	incipit Gassendus immergi. Centrum Grimaldi in umbra.
	18	30	totus Grimaldusmersus.
	19	0	Umbra ad Campanum.
	19	30	ad Herigonium.
	22	30	ad Tychonem.
	23	10	ad Bullialdum.
	24	0	Tycho mersus.
	24	20	Umbra ad Pitatum.
	32	0	ad Galileum.
	42	0	ad Kepplerum.
	43	0	ad Reinholdum.
	55	0	Fracastor. mergitur, umbra ad Copernicum.
7	2	0	Copernicus totus videtur esse in umbra.
	6	0	Umbra ad Wendelinum.
	10	20	Centrum ☾ in umbra.
	14	0	☾ occultatur post montes ad occasum ante medium eclipsi- fis.

Cæterum Penumbra erat exigua, & umbra bene nîgra ac distincta: potuitque cœlo admodum serene & clare eclipsis sat commode spectari usque ad occasum ☾. Diameter Lunæ ante eclipsim erat in micrometro 30' 20'' circ. in ipso vero occasu tantum 30' 0''. Centrum apparentis disci erat ab sinu æstuum occid. modice versus Hipparchum.

Jan.

1741.

h ' "

- Jan. *die* 6. 12 52 25. *p. m.* Emerfio Satellitis 1<sup>mi</sup>.  
*Telescop.* 18 *ped.*
8. 7 20 30 *p. m.* Emerfio ejusdem. *Eodem*  
*dubiè.*
11. 13 51 22 *p. m.* Emerfio Satellitis 2<sup>di</sup>.  
*Telescop.* 10 *ped.*
14. 2 42 40 *a. m.* Emerfio Satellitis 1<sup>mi</sup>.  
*Telescop.* 18 *ped.*
15. 9 12 36 *p. m.* Emerfio ejusdem. *Te-*  
*lescop.* 13 *ped.*
18. 16 26 15 *p. m.* Emerfio Satellitis 2<sup>di</sup>.  
*Telesc.* 10. *ped.*
21. 5 30 *p. m.* ♂ præcedebat hesternam  
 Stellam *c* in  $\Pi$  1' 8".  
 temp. in asc. rect. au-  
 stralior erat in declin.  
 5' 0".
22. 5 15 *p. m.* ♂ præcedens hesternam  
 Stellam 2' 45". temp.  
 in asc. rect. australior  
 in declin. 2' 0".
- 5 41 57 *p. m.* Emerfit Satel-  
 les 2<sup>dus</sup>. } *Telesc.*
- 11 3 19 *p. m.* Emerfit Satel- } 18 *ped.*  
 les 1<sup>us</sup>. }
24. 5 33 24 *p. m.* Emerfio Satellitis 1<sup>mi</sup>.  
*Telescop.* 10 *ped.*
28. 7 18 *vesperi* ♀ a margine  $\alpha$  distabat  
 19' 30".
29. 8 18 16 *p. m.* Emerfio Satellitis 2<sup>di</sup>.  
*Teles.* 13 *ped.*

Jan.

1741.

h ' "

- Jan. die 29. 12 57 10 *p.m.* Emerfio Satellitis 1<sup>mi</sup>.  
 Feb. die 3. 8 18 *p.m.* Emerfio Satellitis 3<sup>tii</sup>.  
 5. 10 53 20 *p.m.* Emerfio Satellitis 2<sup>di</sup>. } *Telesc.*  
 6. 2 53 *a.m.* Emerfio Satellitis 1<sup>mi</sup>. } 8 *ped.*  
 7. 9 20 35 *p.m.* Emerfio ejusdem.  
 8. 10 43 *p.m.* plena immer. Satellitis 4<sup>ti</sup>. }  
 14 6 30 Caput emergere idem Satelles 4<sup>tus</sup>. } *Telesc.*  
 10. 9 16 30 *p.m.* plena immerfio Satellitis 3<sup>tii</sup>. *Eodem.* } 13 *ped.*  
 12. 13 32 *p.m.* Emerfit Satelles 2<sup>dus</sup> vifus  
*Telescop.* 8 *ped.*  
 14. 11 14 15 *p.m.* Emerfio Satellitis 1<sup>mi</sup>.  
*Telescop.* 18 *ped.*  
 16. 5 43 45 *p.m.* Emerfio ejusdem. *Eodem.*  
 22. 11 44 26 *p.m.* Luna obtexit stellam " in 8 ftantem in recta cum Manilio & Cenforino. Emerfio fpectari non potuit.  
 23. 7 39 29 *p.m.* Emerfit Satelles 1<sup>us</sup>.  
*Tubo* 18 *ped.*

Feb.



1741. h ' "  
 Feb. die 24. 9 27 p.m. Stella  $\eta$  in  $\Pi$  infra  $\epsilon$  am  
 stabat in recta cum Ty-  
 chone & Platone, ab  
 illo in austrum distans  
 11' 20".
- 13 38 45 p.m. Stella  $\mu$  in  $\Pi$  obrecta  
 fuit a  $\epsilon$  in recta per  
 Tychonem & Posido-  
 nium; quæ non emer-  
 sit ante hor. 13. 55',  
 cum  $\epsilon$  occidit post  
 rectum.
25. 8 26 30 p.m. Emerfio Satellitis 4<sup>ti</sup>.  
*Telescop.* 13.
- Mart. die 2. 9 36 11 p.m. Emerfio Satellitis 1<sup>mi</sup>.  
*Telescop.* 18.
11. 6 2 45 p.m. Emerfio ejusdem. *Eod.*  
 April. die 3. 6 26 35 p.m. Emerfio ejusdem. *Eod.*  
 8 14 Emerfio Satellitis 2<sup>di</sup>.  
*Tabo 8 ped.*
10. 8 20 37 p.m. Emerfit Satelles 1<sup>us</sup>. visus  
*Telescop.* 13.
20. 10 50 42 p.m.  $\epsilon$  obtexit Satellitem  
 3<sup>tium</sup>, qui erat ad occi-  
 dentem  $\gamma$ <sup>is</sup>.
- 10 56 45  $\epsilon$  attigit limbum  $\gamma$   
 h. 10 57' 35" fuit plena  
 hujus immerfio plane in  
 medio inter utramque  
 cuspidem  $\epsilon$  recta versus  
 centrum. Alii Satel-  
 lites ob atmosphæram  
 non

non erant bene discernibiles. Et Luna paulo post se abscondit post tecta.

1741.		h	'	"	
Maii die	3.	8	40	6	p.m.
					Emerfio Satellitis 1 <sup>mi</sup> .
					<i>Telescop.</i> 13 <i>ped.</i>
		9	36		Emerfio Satellitis 4 <sup>ti</sup> .
					<i>Eodem.</i>
Sept. die	8.	4	41	48	a.m.
					Immerfio Satellitis 1 <sup>mi</sup> .
					<i>Eodem.</i>
	24.	8	7	15	p.m.
					☾ obtexit Stellam quadranguli ante caudam Ceti Australem præcedentem, quæ immerfit modice ad ortum Cleostrati.
		9	0	13	
					Eadem emerfit proxime Berosum.
Oct. die	1.	5	0	8	a.m.
					Immerfio Satellitis 1 <sup>mi</sup> .
					<i>Tubo</i> 13 <i>ped.</i>
	15.	17	8	49	p.m.
					Immerfio 2 <sup>di</sup> . Satellitis cœlo nonnihil nubilo.
					<i>Telescop.</i> 13 <i>ped.</i>